IN THE CLAIMS

 (Currently Amended) A continuous time sigma delta converter comprising: conversion means having known non-ideal characteristics and arranged to provide an output signal;

a compensation circuit comprising error modelling components arranged to substantially model the non-ideal characteristics of the conversion means in order to provide a compensation signal, the non-ideal characteristics including asymmetrical errors associated with non-ideal rising and falling edges of signal transitions of the converter; and

summation means coupled to combine the compensation signal with the output signal in order to provide a compensated output signal.

- 2. (Previously Presented) The converter of claim 1 further characterised by:

 the summation means being arranged to subtract the compensation signal from the output signal in order to provide the compensated output signal.
- 3. (Cancelled)
- 4. (Currently Amended) A method of compensating for known non-ideal characteristics in a continuous time sigma delta converter, the method comprising:

converting an input signal of one time domain to an output signal of another time domain using a converter having known non-ideal characteristics;

modelling the non-ideal characteristics of the converter in a compensation circuit, the non-ideal characteristics including asymmetrical errors associated with non-ideal rising and falling edges of signal transitions of the converter; and

combining a compensation signal output of the compensation circuit with the output signal of the converter in order to provide a compensated output signal.

5. (Previously Presented) The converter of claim 1 further characterised by:
the non-ideal characteristics being associated with a feedback path of the converter.

- 6. (Previously Presented) The converter of claim 1 further characterised by:
 the non-ideal characteristics including symmetrical errors associated with non-ideal rising and falling edges of signal transitions of the converter.
- 7. (Cancelled)
- 8. (Previously Presented) The converter of claim 1 further characterised by:
 the compensation circuit having calibration parameters determined by a
 dichotomy technique which iteratively refines the values of the calibration parameters.
- 9. -14. (Cancelled)
- 15. (Previously Presented) The method of claim 4 further characterised by:

 the non-ideal characteristics being associated with a feedback path of the converter.
- 16. (Previously Presented) The method of claim 4 further characterised by:

 the non-ideal characteristics including symmetrical errors associated with nonideal rising and falling edges of signal transitions of the converter.
- 17. (Cancelled)
- 18. (Previously Presented) The method of claim 4 further characterised by:

 the compensation circuit having calibration parameters determined by a

 dichotomy technique which iteratively refines the values of the calibration parameters.